REAL PROPERTY ASSETS DATABASE

DoD's Real Property Inventory Authoritative Data Source

The Challenge

Managing DoD's worldwide real property portfolio (over 545,700 buildings, structures and linear structures located at more than 5,400 sites on approximately 30 million acres) is a monumental effort. For nearly ten years, DoD managed its real property data by collecting and compiling summary Department data into a single database, the Facilities Assessments Database (FAD). The lack of common definitions, data attributes, standardized data structures and formats made data validation and reporting extremely difficult, prone to error and labor intensive in those early years. While policy and directive guidance changes started moving towards standardization, this was not entirely the answer needed—a major technical overhaul was required.

DoD and Federal leaders require quick and easy access to authoritative and accurate real property data in order to implement critical decisions and portfolio management. To achieve this level of integration and data integrity, DoD initiated several significant transformation initiatives to increase the quality and availability of data with a more dynamic structure, providing a vast number of users near real-time, continuous access to real property inventory data.

The Solution

DoD has directed the conversion of FAD to a true Real Property Information Model (RPIM) compliant data warehouse. To be named the Real Property Assets Database (RPAD), the warehouse will be overlaid with a DoD Net-Centric and Service Oriented Architecture. RPAD will become the single authoritative source for all DoD real property inventory and will be available to authorized users via standardized Web Services.

A data collection system, the Component Submission Application (CSA) will bridge the divide between legacy databases and RPAD by formatting, providing a first-level validation and transmitting real property data directly from the Military Departments and Washington Headquarters Service. Data will enter the RPAD data warehouse only after successfully passing a series of upper-level data validation processes.

Authorized RPAD users will be able to retrieve metadata and output products via a Web-based Reporting Application and other data supply Web services. Real property data formatted in pre-defined summary reports and datamarts will be available on demand. RPAD will:

- Implement the DoD Instruction 4165.14, "Real Property Inventory and Forecasting", as supplemented by fiscal year end-of-year guidance

- Comply with current DoD Business Enterprise Architecture

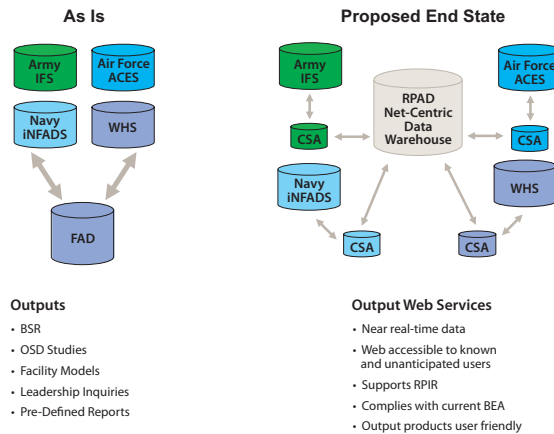- Support the DoD standardized Real Property Inventory Requirements (RPIR)

DoD Installations & Environment
Business Enterprise Integration

The Current Status

The initial development of the RPAD Data Warehouse, Component Submission Application, the Metadata Viewer Application & Web Services, and the Reports Application & Web Services are complete and undergoing extensive testing. Full operational capability is scheduled for September 2009.

A total of 138 data elements were collected in the 2007 RPAD submission, which defined installations, sites and real property assets (facilities and land) inventory as of September 30, 2007.

As Is

Proposed End State

Outputs
- BSR
- OSD Studies
- Facility Models
- Leadership Inquiries
- Pre-Defined Reports

Output Web Services
- Near real-time data
- Web accessible to known and unanticipated users
- Supports RPIR
- Complies with current BEA
- Output products user friendly

The Benefits

- Data visible, accessible, understandable and trustable when and where needed

- Tagged with metadata to enable discovery by known and unanticipated users

- Posted to shared space for all users to access except when limited by security, policy or regulation

- Provides reconciliation of real property between Military Departments and Defense Agencies

RPAD successfully used as the data source for:

- *Submission of DoD's 2007 Federal Real Property Portfolio*

- *OSD's Facilities Sustainment, Facilities Modernization, and Facilities Operations Models*

- *DoD Base Structure Report*

- *Defense Critical Infrastructure & Historical Preservation Programs*

- *Air Force 2007 Programmable Workload Factors*

- *Joint Engineer Planning and Execution System (JEPES)*

- *Fast Fact Assets Report – ODUSD(I&E) Congressional Testimony*

- *ODUSD(I&E) Posture Statement*

- *Defense Agency RPI Reconciliation*

- *Validation of RPIR Compliance*

Contact

If you have any questions, or would like to send us feedback, please contact:

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